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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/643,578	08/18/2003	Nicholas Leventis	423.019US1	423.019US1 3949		
21186	7590 09/29/2005		EXAM	EXAMINER		
SCHWEGM	IAN, LUNDBERG, WOE	COONEY,	COONEY, JOHN M			
1600 TCF TC	OWER					
121 SOUTH I	EIGHT STREET	ART UNIT	PAPER NUMBER			
MINNEAPOI	LIS, MN 55402	1711				
			DATE MAIL ED. 00/20/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.		Applicant(s)				
Office Action Summary		10/643,578		LEVENTIS ET AL.				
		Examiner		Art Unit				
		John m. Cooney	,	1711				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on							
·								
3)	· · · · · · · · · · · · · · · · · · ·							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)⊠	○ Claim(s) <u>1-64</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
· · ·	Claim(s) <u>1-64</u> is/are rejected.							
	Claim(s) is/are objected to.							
·	☐ Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
	•	iner						
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on <u>18 August 2003</u> is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	,	Paper No(s)/Mail Dat Notice of Informal Pa Other:)-152)			

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Application/Control Number: 10/643,578

Art Unit: 1711

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-24 and 43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicants' employment of the terminology "sol-gel like" is confusing as to intent. Although applicants' recite a discussion of "sol-gel like" in the supporting disclosure, this recitation does not set forth definition of the term "sol-gel like" in a manner that it can be determined what materials other than and/or beyond "sol-gel" materials are encompassed by the terminology "sol-gel like".

Claims 26-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicants set forth percentage by weight values but do not set forth what these percentage by weight values are based upon. Accordingly, the claims are confusing as to intent.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4-17,20-36, and 39-64 are rejected under 35 U.S.C. 102(b) as being anticipated by Kawakami et al.(6,364,953).

Kawakami et al. disclose preparations of crosslinked silica aerogels, prepared by forming a sol-gel material combined with gellation initiator, solvent to form a wet-gel film followed by drying through supercritical and sub-critical drying processes, which read on the products and processes of applicants' claims (see column 7 lines 39-44, column 15 line 3 – column 20 line 40, and example 1, as well as, the entire document).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2,3,18,19,37, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawakami et al. as applied to claims 1, 4-17,20-36, and 39-64 above, and further in view of Barsotti et al.(6,428,898).

Kawakami et al. differs from applicants' claims in that isocyanate crosslinking is not required. However, Barsotti et al. discloses use of isocyanate and other crosslinkers in the reactions with silicon/hydroxyl components for the purpose of imparting their crosslinking effect. Accordingly, it would have been obvious for one having ordinary skill in the art to have employed the crosslinkers of Barsotti et al. as crosslinking agents in the preparations of Kawakami et al. for the purpose of imparting their crosslinking effect in the preparations prepared in order to arrive at the products processes of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hashida et al. is cited for its disclosure of relevant materials in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JOHN M. COONEY, JR. PRIMARY EXAMINER